FIGURE 1

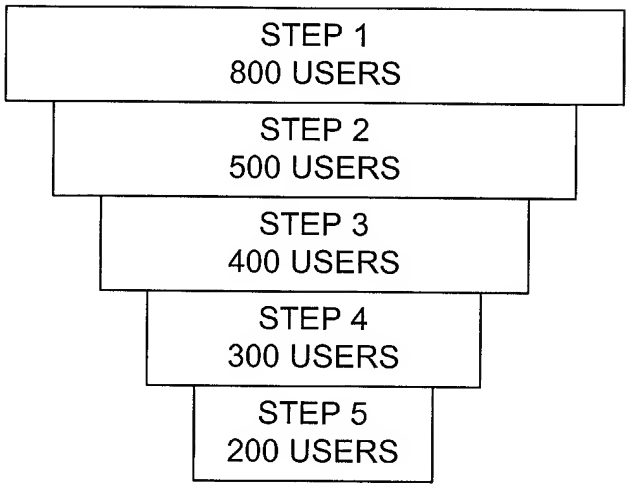


FIGURE 2

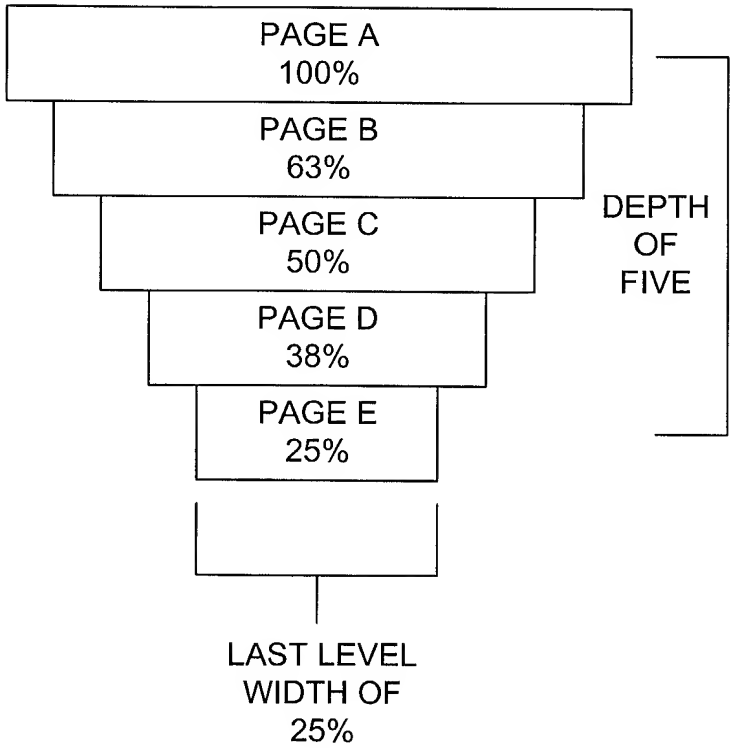


FIGURE 3A

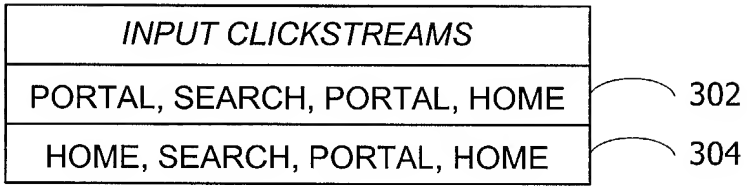


FIGURE 3B

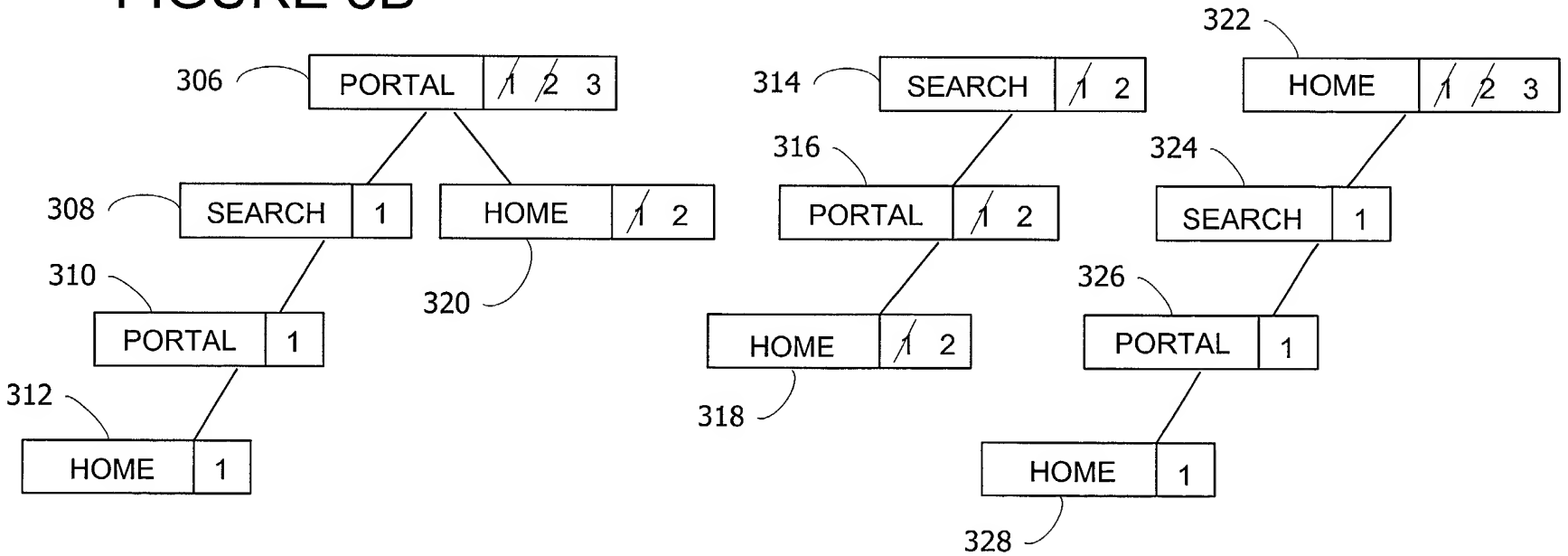


FIGURE 4

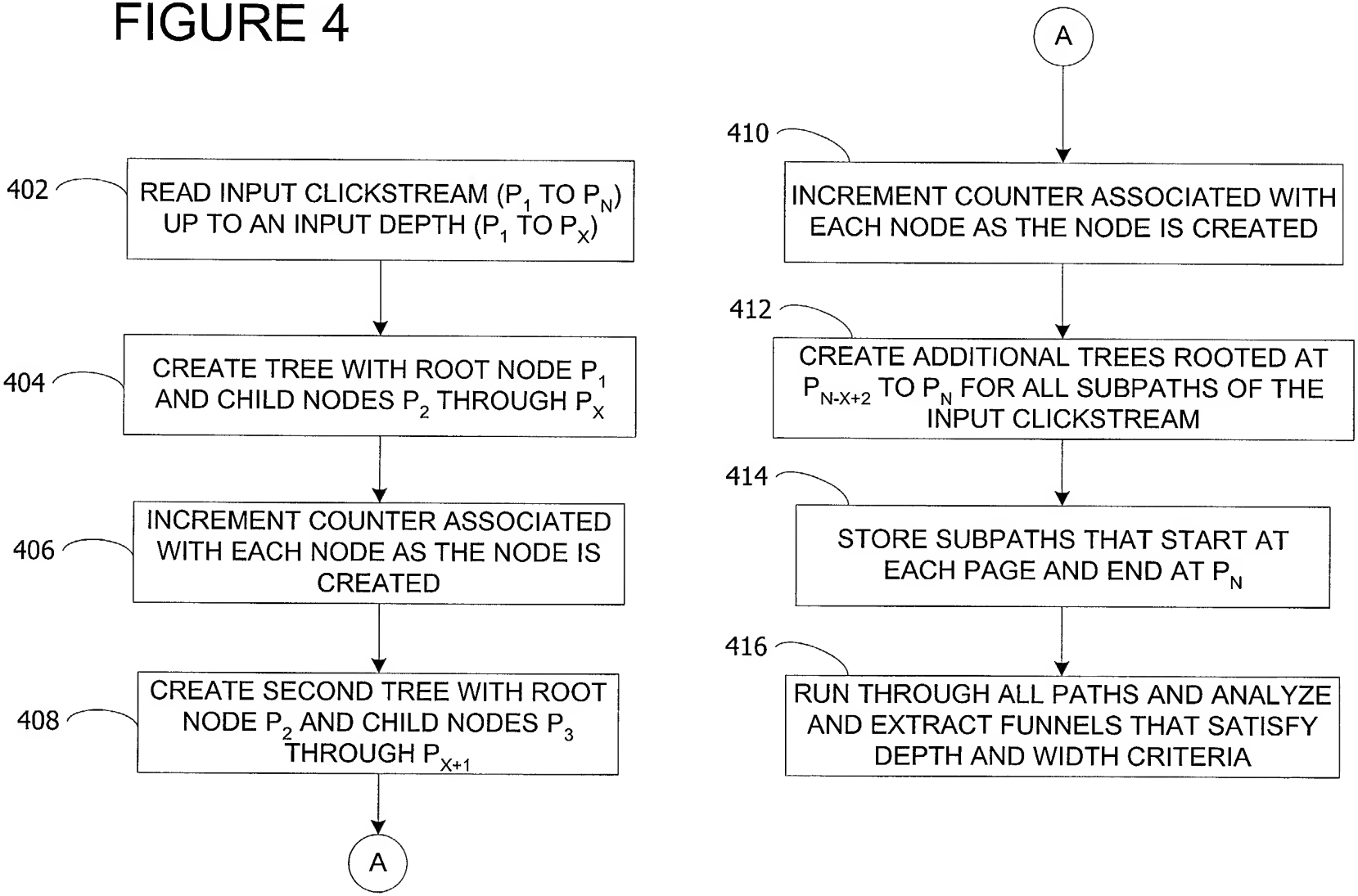

402
READ INPUT CLICKSTREAM (P_1 TO P_N) UP TO AN INPUT DEPTH (P_1 TO P_X)
404
CREATE TREE WITH ROOT NODE P_1 AND CHILD NODES P_2 THROUGH P_X
406
INCREMENT COUNTER ASSOCIATED WITH EACH NODE AS THE NODE IS CREATED
408
CREATE SECOND TREE WITH ROOT NODE P_2 AND CHILD NODES P_3 THROUGH P_{X+1}
A
A
410
INCREMENT COUNTER ASSOCIATED WITH EACH NODE AS THE NODE IS CREATED
412
CREATE ADDITIONAL TREES ROOTED AT P_{N-X+2} TO P_N FOR ALL SUBPATHS OF THE INPUT CLICKSTREAM
414
STORE SUBPATHS THAT START AT EACH PAGE AND END AT P_N
416
RUN THROUGH ALL PATHS AND ANALYZE AND EXTRACT FUNNELS THAT SATISFY DEPTH AND WIDTH CRITERIA

FIGURE 5

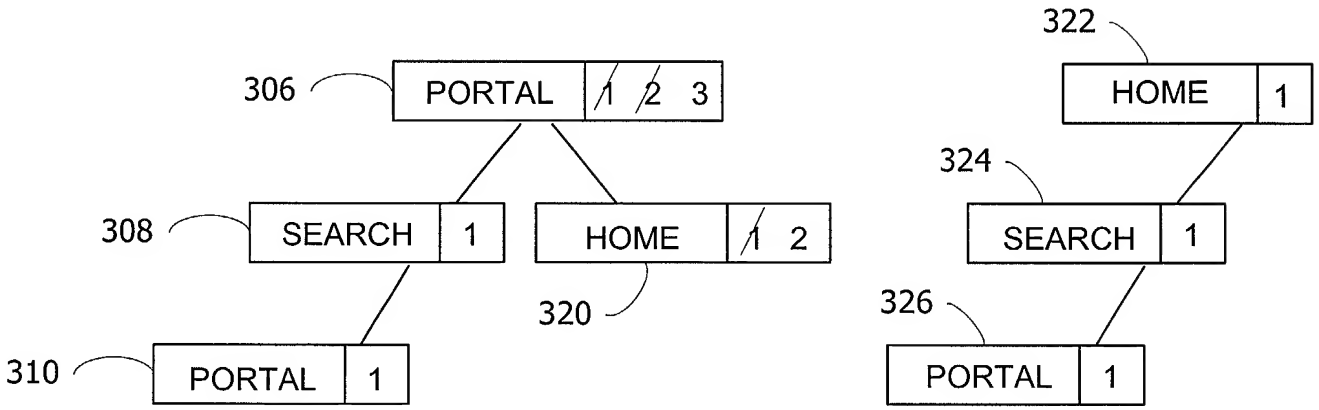

306
PORTAL
1 2 3
308
SEARCH
1
HOME
1 2
320
310
PORTAL
1
322
HOME
1
324
SEARCH
1
326
PORTAL
1

FIGURE 6

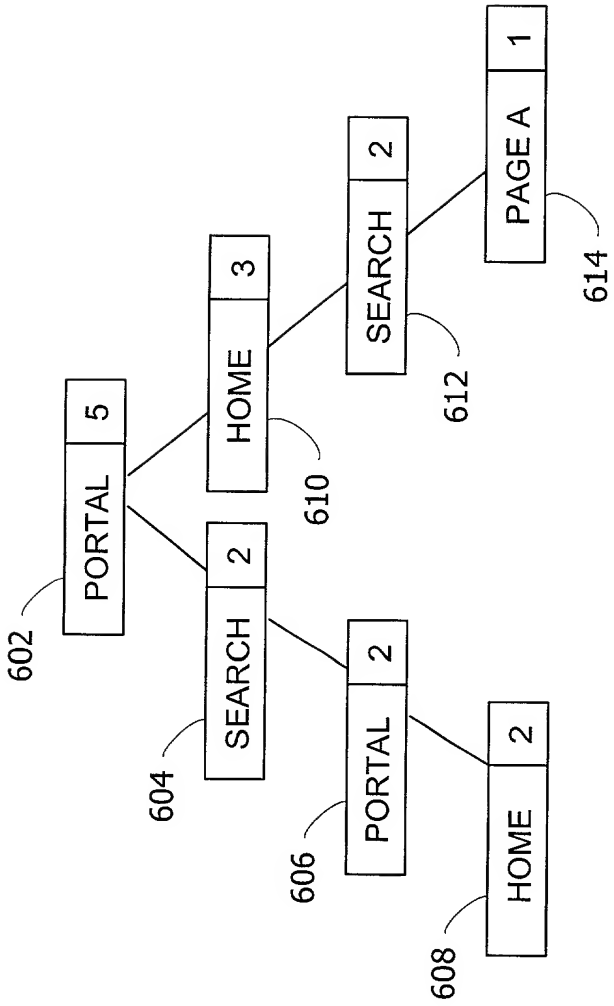

PORTAL
5
602
SEARCH
2
604
HOME
3
610
PORTAL
2
606
SEARCH
2
612
HOME
2
608
PAGE A
1
614

FIGURE 7

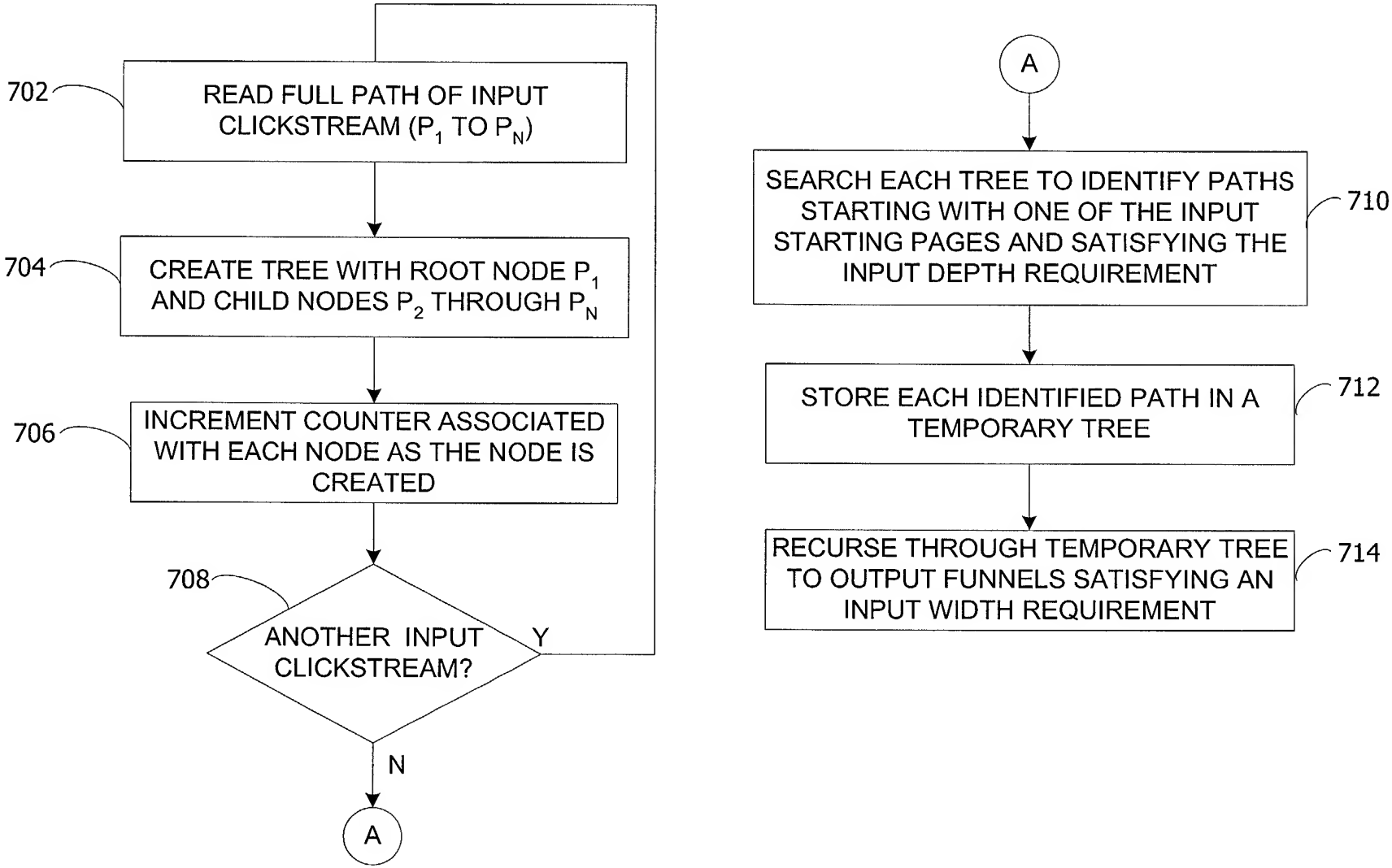

702
READ FULL PATH OF INPUT CLICKSTREAM (P_1 TO P_N)
704
CREATE TREE WITH ROOT NODE P_1 AND CHILD NODES P_2 THROUGH P_N
706
INCREMENT COUNTER ASSOCIATED WITH EACH NODE AS THE NODE IS CREATED
708
ANOTHER INPUT CLICKSTREAM?
Y
N
A
A
SEARCH EACH TREE TO IDENTIFY PATHS STARTING WITH ONE OF THE INPUT STARTING PAGES AND SATISFYING THE INPUT DEPTH REQUIREMENT
710
STORE EACH IDENTIFIED PATH IN A TEMPORARY TREE
712
RECURSE THROUGH TEMPORARY TREE TO OUTPUT FUNNELS SATISFYING AN INPUT WIDTH REQUIREMENT
714

FIGURE 8

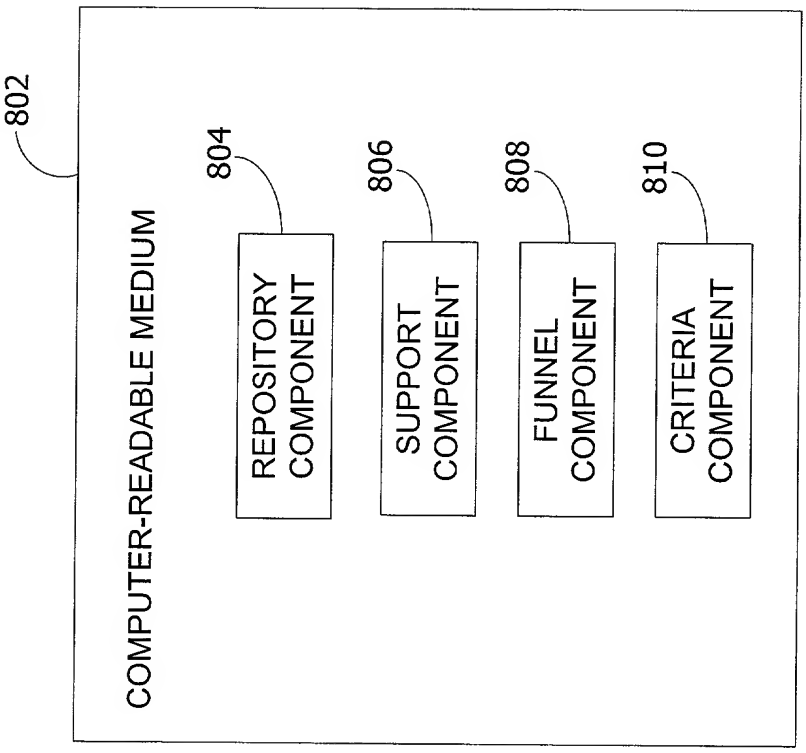
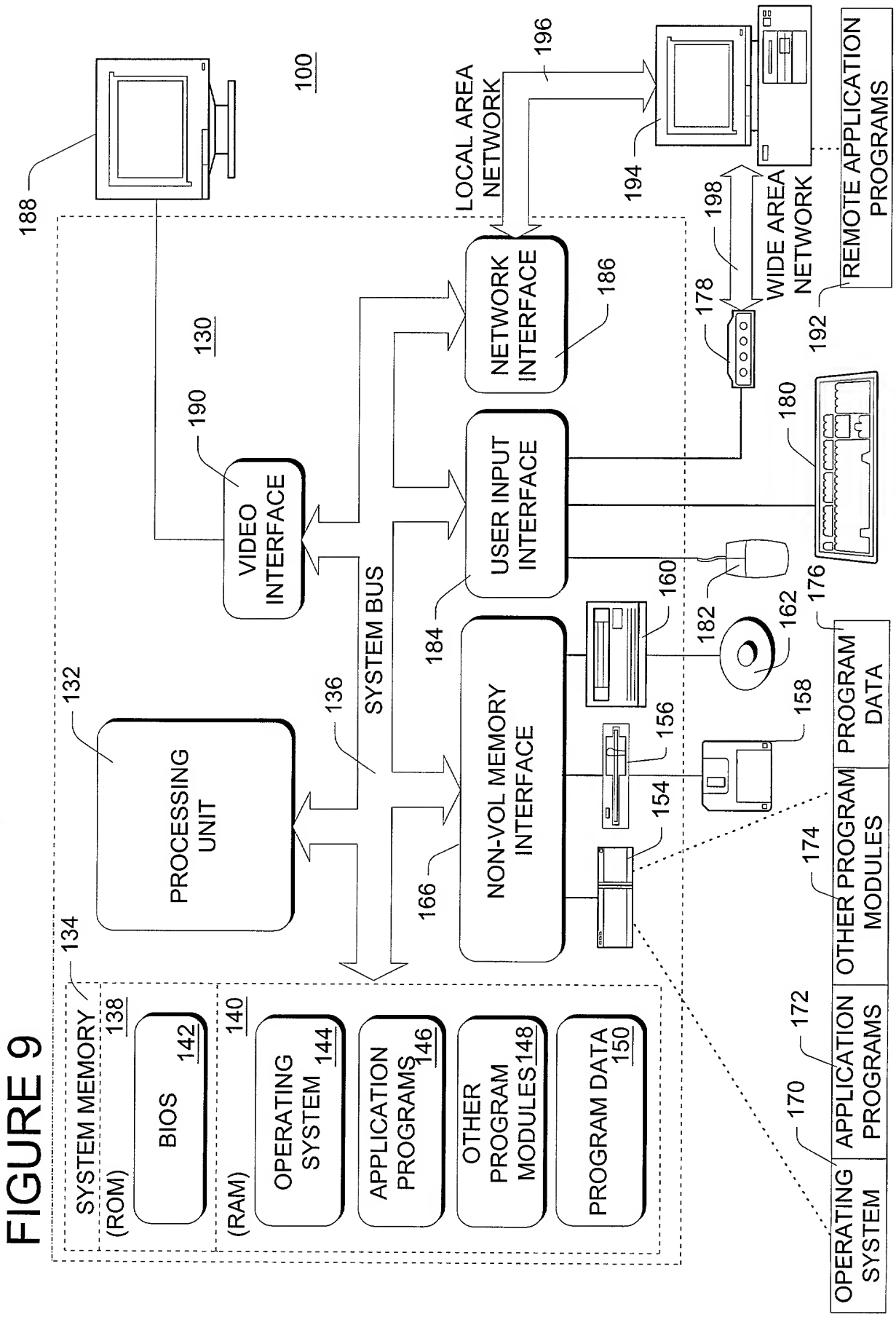

802
COMPUTER-READABLE MEDIUM
804
REPOSITORY COMPONENT
806
SUPPORT COMPONENT
808
FUNNEL COMPONENT
810
CRITERIA COMPONENT

FIGURE 9


100
188
LOCAL AREA NETWORK
196
194
REMOTE APPLICATION PROGRAMS
192
WIDE AREA NETWORK
198
178
NETWORK INTERFACE
186
130
190
VIDEO INTERFACE
USER INPUT INTERFACE
180
SYSTEM BUS
184
132
PROCESSING UNIT
136
NON-VOL MEMORY INTERFACE
160
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162
176
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SYSTEM MEMORY
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OPERATING SYSTEM
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174
PROGRAM DATA